

Notice of Allowability

Application No.

10/761,018

Examiner

Chuc D. Tran

Applicant(s)

YUANZHU, DOU

Art Unit

2821

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to January 20, 2004.
2. ☒ The allowed claim(s) is/are 1-43.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 01/20/04;04/12/04
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.


TAN HO
PRIMARY EXAMINER

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-43 allowed.

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

Prior art fails to disclose or fairly suggest an antenna device comprising:

(1) a first and a second radiating conductor that meander and are symmetrically disposed on a surface of the first dielectric substrate, lower ends of the first radiating conductor and the second radiating conductor being connected at a junction; and a capacitive conductor disposed on the first dielectric substrate and connected to the ends of the first radiating conductor and the second radiating conductor, in combination with the remaining claimed limitations as claimed in independent claim 1 (claims 2-14 are allowed since they are dependent on claim 1);

(2) a first set of radiating conductors disposed on a surface of the first dielectric substrate, the first set of the radiating conductors directly connected to the ground conductor and disposed to provide an area on the surface of the first dielectric substrate where electric fields generated by the first set of the radiating conductors cancel each other out; and a capacitive conductor disposed on the first dielectric substrate and connected to the first set of the radiating conductors, in combination with the remaining claimed limitations as claimed in independent claims 15 and 32 (claims 16-31 and 33-43 are allowed since they are dependent on claims 15 and 32).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

Art Unit: 2821

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Drawings

3. The drawings were received on January 20, 2004. These drawings are accepted.

Citation of relevant prior art

Prior art Varadan et al (USP. 6,525,691) disclose miniaturized conformal wideband fractal antenna.

Prior art Bishop (USP. 6,337,666) disclose planar sleeve dipole antenna.

Prior art Honda et al (USP. 6,992,627) disclose single and multiband quarter wave resonator.

Prior art Matsuoka et al (USP. 6,008,773) disclose reflector provided dipole antenna.

Prior art McCoy et al (USP. 6,445,348) disclose dispersive surface antenna.

Prior art Jo et al (USP. 6,897,817) disclose independently tunable multiband meanderline loaded antenna.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuc D. Tran whose telephone number is (571) 272-1829. The examiner can normally be reached on M-F Flex hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2821

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TC
April 30, 2006


TAN HO
PRIMARY EXAMINER